



PLA-CF Filament

1.75 mm · 1 kg spool

OzFDM PLA-CF filament is an advanced 3D printing material, offering superior strength and resistance due to its carbon fibre reinforcement. This 1.75mm filament has a diameter tolerance of $\pm 0.05\text{mm}$, and comes in a 1KG spool for long-term use.

✓ Carbon fibre reinforced PLA

✓ Superior strength & stiffness

✓ Easy printing

RECOMMENDED PRINT SETTINGS

Nozzle temperature	200 – 230 °C (210 °C recommended)
Bed temperature	30 – 60 °C (50 °C recommended)
Print speed	40 – 60 mm/s (50 mm/s recommended)
Support material	PVA, PLA-CF (Self Supported)
Drying	60 °C for ≥ 5 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.05 mm
Net weight	1 kg
Density	1.26 – 1.27 g/cm ³

SPOOL & PACKAGING

Empty spool weight	150 g
Full spool weight	1.15 kg
Spool outer diameter	200 mm
Spool hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 210 × 75 mm

AVAILABLE COLOURS (8)



Black



Green



Blue



Purple



Pink



Grey



Midnight Blue



Marsala

MECHANICAL PROPERTIES

Tensile Strength ISO 527	40 – 45 MPa
Elongation at Break ISO 527	11.5 – 13.5 %
Flexural Modulus ISO 527	1100 – 1300 MPa
Flexural Strength ISO 178	85 – 95 MPa
Impact Strength ISO 180	8.5 – 9.5 kJ/m ²

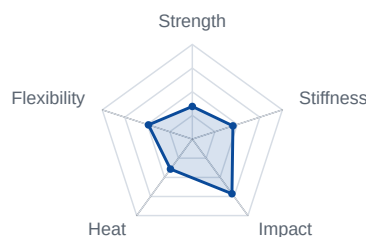
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	60 °C
Continuous Use Temperature IEC 60216	55 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	10 – 15 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	< 0.5 %

STORAGE & HANDLING

Airtight bag or container with desiccant in a cool, dark, dry place. For long-term storage, dry the filament before vacuum-sealing it with desiccant.

PROPERTY PROFILE



Relative to the OzFDM filament range